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US 20060193358 A1	US- PGPUB	20060831	Tetravalent chromium doped laser materials and NIR tunable lasers	372/41	372/66; 372/70	Alfano; Robert R. et al.
US 20060173355 A1	US- PGPUB	20060803	Detecting human cancer through spectral optical imaging using key water absorption wavelengths	600/476	600/478	Alfano; Robert R. et al.
US 20050240107 A1	US- PGPUB	20051027	Detecting human cancer through spectral optical imaging using key water absorption wavelengths	600/476	600/473	Alfano, Robert R. et al.
US 20050226577 A1	US- PGPUB	20051013	Method and apparatus for producing a multiple optical channel source from a supercontinuum generator for WDM communication	385/122		Alfano, Robert R. et al.
US 20050098728 A1	US- PGPUB	20050512	Systems and methods for non-destructively detecting material abnormalities beneath a coated surface	250/341.8		Alfano, Robert R. et al.
US 20040176752 A1	US- PGPUB	20040909	System and methods for laser treatment of ocular tissue	606/4	606/8	Alfano, Robert R. et al.
US 20040152203 A1	US- PGPUB	20040805	Stokes shift emission spectroscopy for detection of disease and physiological state of specimen	436/171		Alfano, Robert R. et al.
US 20040135222 A1	US- PGPUB	20040715	Photodetectors and optically pumped emitters based on III-nitride multiple-quantum-well structures	257/458		Alfano, Robert R. et al.
US 20040119018 A1	US- PGPUB	20040624	Systems and methods for non-destructively detecting material abnormalities beneath a coated surface	250/341.1		Alfano, Robert R. et al.
US 20040111031 A1	US- PGPUB	20040610	Spectral polarizing tomographic dermatoscope	600/476	600/473	Alfano, Robert R. et al.
US 20040030255 A1	US- PGPUB	20040212	Hybrid-dual-Fourier tomographic algorithm for a fast three-dimensional optical image reconstruction in turbid media	600/476		Alfano, Robert R. et al.
US 20030229458 A1	US- PGPUB	20031211	Systems and methods for non-destructively detecting material abnormalities beneath a coated	702/40		Alfano, Robert R. et al.

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US 20030090674 A1	US- PGPUB	20030515	System and method for performing selected optical measurements	356/497	356/521	Zeylikovich, Iosif et al.
US 20030048499 A1	US- PGPUB	20030313	Methods of improving line of sight wireless optical communication through adverse environmental conditions	398/5		Alfano, Robert R. et al.
US 20020198517 A1	US- PGPUB	20021226	Gelatin based and Power-gel™ as solders for Cr4+ laser tissue welding and sealing of lung air leak and fistulas in organs.	606/8		Alfano, Robert R. et al.
US 20020095257 A1	US- PGPUB	20020718	Method and system for detection by raman measurements of bimolecular markers in the vitreous humor	702/19	351/205	Rosen, Richard B. et al.
US 20020002337 A1	US- PGPUB	20020103	System and method of fluorescence spectroscopic imaging for characterization and monitoring of tissue damage	600/476	250/362; 250/363.01; 600/477	Alfano, Robert R. et al.
US 20010046054 A1	US- PGPUB	20011129	System and method for performing selected optical measurements utilizing an optical coherence domain reflectometer	356/497	356/521	Zeylikovich, Iosif et al.
US 7145148 B2	USPAT	20061205	Systems and methods for non-destructively detecting material abnormalities beneath a coated surface	250/341.8	250/339.11; 250/358.1	Alfano; Robert R. et al.
US 7119359 B2	USPAT	20061010	Photodetectors and optically pumped emitters based on III-nitride multiple-quantum-well structures	257/25	257/13; 257/21; 257/97	Alfano; Robert R. et al.
US 7106972 B2	USPAT	20060912	Methods of improving line of sight wireless optical communication through adverse environmental conditions	398/158	398/119; 398/159	Alfano; Robert R. et al.
US 7038208 B2	USPAT	20060502	Systems and methods for non-destructively detecting material abnormalities beneath a coated surface	250/341.1		Alfano; Robert R. et al.
US 7033348 B2	USPAT	20060425	Gelatin based on Power-gel™. as solders for Cr.sup.4+laser tissue welding and sealing of lung air leak and fistulas in organs	606/8	128/898; 606/3; 606/9; 607/88; 607/89	Alfano; Robert R. et al.
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US 6762839 B2	USPAT	20040713	System and method for performing selected optical measurements utilizing a position changeable aperture	356/397	356/521	Zeylikovich; Iosif et al.
US 6665557 B1	USPAT	20031216	Sprectroscopic and time-resolved optical methods and apparatus for imaging objects in turbed media	600/473	600/475	Alfano; Robert R. et al.
US 6665556 B1	USPAT	20031216	Method and apparatus for examining a tissue using the spectral wing emission, therefrom induced by visible to infrared photoexcitation	600/473	600/474; 600/476; 600/477	Alfano; Robert R. et al.
US 6631289 B2	USPAT	20031007	System and method of fluorescence spectroscopic imaging for characterization and monitoring of tissue damage	600/476	250/341.1; 356/432; 436/172; 436/63; 600/310; 600/473	Alfano; Robert R. et al.
US 6615068 B1	USPAT	20030902	Technique for examining biological materials using diffuse reflectance spectroscopy and the kubelka-munk function	600/407	250/459.1; 250/461.2; 436/171; 436/172; 436/63; 436/64	Alfano; Robert R. et al.
US 6587711 B1	USPAT	20030701	Spectral polarizing tomographic dermatoscope	600/476	600/410; 600/425	Alfano; Robert R. et al.
US 6560478 B1	USPAT	20030506	Method and system for examining biological materials using low power CW excitation Raman spectroscopy	600/473	600/475	Alfano; Robert R. et al.
US 6495833 B1	USPAT	20021217	Sub-surface imaging under paints and coatings using early light spectroscopy	250/341.8	250/330; 250/339.11	Alfano; Robert R. et al.
US 6437867 B2	USPAT	20020820	Performing selected optical measurements with optical coherence domain reflectometry	356/497	356/521	Zeylikovich; Iosif et al.
US 6346101 B1	USPAT	20020212	Photon-mediated introduction of biological materials into cells and/or cellular components	606/15	128/898; 604/19; 604/20; 606/1; 606/10; 606/13; 606/17	Alfano; Robert R. et al.
US 6280386 B1	USPAT	20010828	Apparatus for enhancing the visibility of a luminous object	600/431	600/109; 600/476;	Alfano; Robert R. et

			inside tissue and methods for same		600/477; 600/478	al.
US 6240312 B1	USPAT	20010529	Remote-controllable, micro-scale device for use in in vivo medical diagnosis and/or treatment	600/476	128/903; 348/77	Alfano; Robert R. et al.
US 6215587 B1	USPAT	20010410	Microscope imaging inside highly scattering media	359/368	359/385; 359/396; 359/559	Alfano; Robert R. et al.
US 6208886 B1	USPAT	20010327	Non-linear optical tomography of turbid media	600/473	250/341.1; 250/358.1; 356/432	Alfano; Robert R. et al.
US 6151522 A	USPAT	20001121	Method and system for examining biological materials using low power CW excitation raman spectroscopy	600/473	356/301; 356/303; 600/310; 600/475	Alfano; Robert R. et al.
US 6108576 A	USPAT	20000822	Time-resolved diffusion tomographic 2D and 3D imaging in highly scattering turbid media	600/476	600/310; 600/473	Alfano; Robert R. et al.
US 6091985 A	USPAT	20000718	Detection of cancer and precancerous conditions in tissues and/or cells using native fluorescence excitation spectroscopy	600/476	436/172; 436/63; 436/64; 600/477	Alfano; Robert R. et al.
US 6091983 A	USPAT	20000718	Imaging of objects in turbid media based upon the preservation of polarized luminescence emitted from contrast agents	600/431	250/341.3; 356/364; 356/433; 600/475; 600/477	Alfano; Robert R. et al.
US 6080584 A	USPAT	20000627	Method and apparatus for detecting the presence of cancerous and precancerous cells in a smear using native fluorescence spectroscopy	436/63	422/82.08; 436/172; 436/64	Alfano; Robert R. et al.
US 6069354 A	USPAT	20000530	Photonic paper product dispenser	250/221	242/563; 312/34.8	Alfano; Robert R. et al.
US 6045465 A	USPAT	20000404	Baseball training bat with colored transferable bands	473/457	473/422; 473/453; 473/559; 473/564	Alfano; Robert R. et al.
US 6006001 A	USPAT	19991221	Fiberoptic assembly useful in optical spectroscopy	385/115		Alfano; Robert R. et al.
US 5983125 A	USPAT	19991109	Method and apparatus for in vivo examination of subcutaneous tissues inside an organ of a body using optical spectroscopy	600/473	600/478; 600/567	Alfano; Robert R. et al.

US 5949077 A	USPAT	19990907	Technique for imaging an object in or behind a scattering medium	250/459.1	250/458.1; 250/461.1; 250/461.2	Alfano; Robert R. et al.
US 5943133 A	USPAT	19990824	System and method for performing selected optical measurements on a sample using a diffraction grating	356/496	356/521	Zeylikovich; Iosif et al.
US 5931789 A	USPAT	19990803	Time-resolved diffusion tomographic 2D and 3D imaging in highly scattering turbid media	600/473	356/432; 600/310; 600/476	Alfano; Robert R. et al.
US 5929443 A	USPAT	19990727	Imaging of objects based upon the polarization or depolarization of light	250/341.3	250/341.1	Alfano; Robert R. et al.
US 5849595 A	USPAT	19981215	Method for monitoring the effects of chemotherapeutic agents on neoplastic media	436/164	422/82.07; 426/63; 426/64; 426/805; 426/811	Alfano; Robert R. et al.
US 5847394 A	USPAT	19981208	Imaging of objects based upon the polarization or depolarization of light	250/341.8	250/341.1	Alfano; Robert R. et al.
US 5828484 A	USPAT	19981027	Multiple-stage optical Kerr gate system	359/258	359/328; 359/329; 359/330	Ho; Ping-Pei et al.
US 5813988 A	USPAT	19980929	Time-resolved diffusion tomographic imaging in highly scattering turbid media	600/476	356/432; 356/446; 600/473	Alfano; Robert R. et al.
US 5799656 A	USPAT	19980901	Optical imaging of breast tissues to enable the detection therein of calcification regions suggestive of cancer	600/473	250/341.1; 250/358.1; 600/476	Alfano; Robert R. et al.
US 5769081 A	USPAT	19980623	Method for detecting cancerous tissue using optical spectroscopy and fourier analysis	600/476	356/301; 356/318	Alfano; Robert R. et al.
US 5719399 A	USPAT	19980217	Imaging and characterization of tissue based upon the preservation of polarized light transmitted therethrough	250/341.3	600/407; 600/473	Alfano; Robert R. et al.
US 5717517 A	USPAT	19980210	Method for amplifying laser signals and an amplifier for use in said method	359/342	372/39; 372/41	Alfano; Robert R. et al.
US 5710429 A	USPAT	19980120	Ultrafast optical imaging of objects in or behind scattering media	250/358.1	250/330; 250/341.1	Alfano; Robert R. et al.
US 5656810 A	USPAT	19970812	Method and apparatus for evaluating the composition of an oil sample	250/301	250/255; 250/461.1	Alfano; Robert R. et al.
US 5644429	USPAT	19970701	2-dimensional imaging of	359/559		Alfano;

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US 5636050 A	USPAT	19970603	Apparatus using optical deflection	359/238		Alfano; Robert R. et al.
US 5635402 A	USPAT	19970603	Technique for determining whether a cell is malignant as opposed to non-malignant using extrinsic fluorescence spectroscopy	436/63	250/459.1; 250/461.2; 436/172; 436/64	Alfano; Robert R. et al.
US 5625458 A	USPAT	19970429	Method and system for imaging objects in turbid media using diffusive fermat photons	356/446		Alfano; Robert R. et al.
US 5474910 A	USPAT	19951212	Method and device for detecting biological molecules and/or microorganisms within a desired area or space	435/34	250/330; 250/339.01; 250/458.1; 250/461.2; 250/910; 422/104; 422/55; 422/64; 422/82.05; 422/82.07; 422/82.08; 422/82.11; 435/29; 435/4; 436/164; 436/171; 436/172; 436/20	Alfano; Robert R.
US 5467767 A	USPAT	19951121	Method for determining if tissue is malignant as opposed to non-malignant using time-resolved fluorescence spectroscopy	600/476	600/477; 606/10; 606/13; 606/3; 607/88; 607/89	Alfano; Robert R. et al.
US 5463485 A	USPAT	19951031	Terahertz repetition rate optical computing systems, and communication systems and logic elements using cross-phase modulation based optical processors	359/107	359/330	Alfano; Robert R. et al.
US 5413108 A	USPAT	19950509	Method and apparatus for mapping a tissue sample for and distinguishing different regions thereof based on luminescence measurements of cancer-indicative native fluorophor	600/478		Alfano; Robert R.
US 5373381	USPAT	19941213	Terahertz repetition rate optical	359/108	359/300;	Alfano;

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US 5371368 A	USPAT	19941206	Ultrafast optical imaging of objects in a scattering medium	250/341.1	250/358.1; 600/425; 600/473	Alfano; Robert R. et al.
US 5369496 A	USPAT	19941129	Noninvasive method and apparatus for characterizing biological materials	356/446	356/318; 356/448; 600/477	Alfano; Robert R. et al.
US 5348018 A	USPAT	19940920	Method for determining if tissue is malignant as opposed to non-malignant using time-resolved fluorescence spectroscopy	600/476	600/477; 606/10; 606/13; 606/3; 607/88; 607/89	Alfano; Robert R. et al.
US 5323260 A	USPAT	19940621	Method and system for compressing and amplifying ultrashort laser pulses	359/244	359/241; 359/333; 359/341.1; 385/3	Alfano; Robert R. et al.
US 5315437 A	USPAT	19940524	Protective device for selectively reflecting high-intensity light over a broad spectral bandwidth	359/588	359/326; 359/586; 359/589	Alfano; Robert R. et al.
US 5293872 A	USPAT	19940315	Method for distinguishing between calcified atherosclerotic tissue and fibrous atherosclerotic tissue or normal cardiovascular tissue using Raman spectroscopy	600/475	600/477; 600/478; 606/14; 606/15; 606/7	Alfano; Robert R. et al.
US 5278403 A	USPAT	19940111	Femtosecond streak camera	250/214VT	313/376; 313/537	Alfano; Robert R. et al.
US 5261410 A	USPAT	19931116	Method for determining if a tissue is a malignant tumor tissue, a benign tumor tissue, or a normal or benign tissue using Raman spectroscopy	600/475	250/339.12; 250/341.5; 356/301	Alfano; Robert R. et al.
US 5227912 A	USPAT	19930713	Multiple-stage optical Kerr gate system	359/258	359/259; 372/700	Ho; Ping-Pei et al.
US 5150248 A	USPAT	19920922	Terahertz repetition rate optical computing systems, and communication systems and logic elements using cross-phase modulation based optical processors	398/147	359/238; 359/264; 398/157; 398/161	Alfano; Robert R. et al.
US 5142372 A	USPAT	19920825	Three-dimensional optical imaging of semi-transparent and opaque objects using ultrashort light pulses, a streak	348/215.1	348/335	Alfano; Robert R. et al.

			camera and a coherent fiber bundle			
US 5140463 A	USPAT	19920818	Method and apparatus for improving the signal to noise ratio of an image formed of an object hidden in or behind a semi-opaque random media	359/559	348/31; 356/337; 378/154	Yoo; Kwong M. et al.
US 5136530 A	USPAT	19920804	Ultrafast digital optical signal processing using a Venn diagram based spatial encoding technique	708/191		Li; Yao et al.
US 5131398 A	USPAT	19920721	Method and apparatus for distinguishing cancerous tissue from benign tumor tissue, benign tissue or normal tissue using native fluorescence	600/476	600/477; 600/478	Alfano; Robert R. et al.
US 5126874 A	USPAT	19920630	Method and apparatus for creating transient optical elements and circuits	359/240	359/241; 359/244	Alfano; Robert R. et al.
US 5061075 A	USPAT	19911029	Optical method and apparatus for diagnosing human spermatozoa	356/417	250/461.2; 356/318; 356/364	Alfano; Robert R. et al.
US 5042494 A	USPAT	19910827	Method and apparatus for detecting cancerous tissue using luminescence excitation spectra	600/477	600/478; 607/89	Alfano; Robert R.
US 5034903 A	USPAT	19910723	Apparatus and method for measuring the time evolution of carriers propagating within submicron and micron electronic devices	250/311	324/158.1	Alfano; Robert R. et al.
US 5003168 A	USPAT	19910326	Trigger circuit for a streak camera sweep drive circuit	250/214VT	257/E31.093	Alfano; Robert R. et al.
US 4987575 A	USPAT	19910122	Tetravalent chromium (Cr.sub.4+) as a laser-active ion for tunable solid-state lasers	372/41	252/301.17; 252/301.4F; 252/301.4R; 372/39	Alfano; Robert R. et al.
US 4973160 A	USPAT	19901127	SHG autocorrelator	356/450	356/520	Takiguchi; Yoshihiro et al.
US 4972423 A	USPAT	19901120	Method and apparatus for generating ultrashort light pulses	372/25	372/20	Alfano; Robert R. et al.
US 4969156 A	USPAT	19901106	Laser cavity having an adjustable optical path length extender	372/93	372/101; 372/92; 372/94; 372/99	Schiller; Norman H. et al.
US 4956548 A	USPAT	19900911	Ultrafast oscilloscope	250/214VT	313/529	Alfano; Robert R. et al.

US 4932031 A	USPAT	19900605	Chromium-doped foresterite laser system	372/41	372/13; 372/18; 372/20; 372/69; 372/94	Alfano; Robert R. et al.
US 4931704 A	USPAT	19900605	Ultrafast sampling oscilloscope	315/384	313/532; 313/542; 324/76.24; 324/76.35	Alfano; Robert R. et al.
US 4930516 A	USPAT	19900605	Method for detecting cancerous tissue using visible native luminescence	600/477	600/478; 607/901	Alfano; Robert R. et al.
US 4918635 A	USPAT	19900417	Ultrafast digital photonic signal processing using optical noncollinear second harmonic generation	708/191	359/107; 359/328; 708/620; 708/839	Li; Yao et al.
US 4853595 A	USPAT	19890801	Photomultiplier tube having a transmission strip line photocathode and system for use therewith	313/532	250/207; 250/214VT; 313/537; 313/542	Alfano; Robert R. et al.
US 4682020 A	USPAT	19870721	Picosecond gated light detector	250/214VT	313/537; 968/854	Alfano; Robert R.
US 4659921 A	USPAT	19870421	Ultrafast gated light detector	250/214VT	313/528; 313/533; 356/318	Alfano; Robert R.
US 4630925 A	USPAT	19861223	Compact temporal spectral photometer	356/318	356/305; 356/328	Schiller; Norman H. et al.
US RE31815 E	USPAT	19850129	Method and apparatus for detecting the presence of caries in teeth using visible luminescence	600/477	356/237.1; 356/318; 600/478	Alfano; Robert R.
US 4479499 A	USPAT	19841030	Method and apparatus for detecting the presence of caries in teeth using visible light	600/477	356/317; 356/341; 356/417; 433/29	Alfano; Robert R.
US 4464761 A	USPAT	19840807	Chromium-doped beryllium aluminum silicate laser systems	372/41		Alfano; Robert R. et al.
US 4438416 A	USPAT	19840320	Picosecond delay device	333/160	333/245	Schiller; Norman H. et al.
US 4435727 A	USPAT	19840306	Apparatus and method for use in calibrating the time axis and intensity linearity of a streak camera	348/187	348/135; 968/854	Schiller; Norman H. et al.
US 4291282 A	USPAT	19810922	Stabilized pulse producing mode locked laser system	372/30	372/18; 372/35; 372/41; 372/99	Alfano; Robert R. et al.

US 4290433 A	USPAT	19810922	Method and apparatus for detecting the presence of caries in teeth using visible luminescence	600/477	356/237.1; 356/318; 433/25	Alfano; Robert R.
US 4277669 A	USPAT	19810707	Method and device for detecting the threshold of generation of a laser beam	219/121.7	219/121.6; 219/121.71; 219/121.85	Alfano; Robert R. et al.
US 3782828 A	USPAT	19740101	PICOSECOND SPECTROMETER USING PICOSECOND CONTINUUM	356/318	356/301; 356/303; 356/323; 372/10; 372/18; 372/21; 372/26	Alfano; Robert R. et al.